

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-28 (cancelled).

Claim 29. (currently amended) A ~~cell-free~~ cartilage membrane, comprising at least one surface part carrying a composition comprising at least one stimulation molecule, which

i) comprises at least one RGD motif;

ii) is selected from the group consisting of collagen proteins, proteoglycans, and non-collageneous proteins, wherein the collagen protein is selected from the group consisting of collagen type II, VI, IX and XI; and

iii) induces a signal transduction in chondroblasts/chondrocytes resulting in chondroblasts/chondrocytes producing and secreting matrix components that form hyaline cartilage, the cartilage membrane being a natural or synthetic collagen type I membrane or part thereof.

Claim 30. (currently amended) A ~~cell-free~~ cartilage membrane according to claim 29, wherein ~~the collagen protein is selected from the group consisting of collagen types II, VI, IX and XI~~, the proteoglycan is selected from the group consisting of aggrecans, decorin, fibromodulin and biglycan, and the non-collageneous protein is selected from the group consisting of cryoprecipitate, fibronectin, vitronectin, fibrinogen, fibrillin, kistrin, echistatin, von Willebrand factor, tenascin and anchorin CII.

Claim 31. (currently amended) A ~~cell-free~~ cartilage membrane according to claim 29, which is a non-immunogenic, non-toxic, biodegradable membrane.

Claim 32. (currently amended) A ~~cell-free~~ cartilage membrane according to claim 29, wherein the membrane material is porous or substantially porous.

Claim 33-39 (cancelled)

Claim 40. (currently amended) A ~~cell-free~~-cartilage membrane according to claim 39,
wherein the stimulation molecule is a natural or synthetic protein or peptide or a fusion or
mixture thereof.

Claim 41. (currently amended) A ~~cell-free~~-cartilage membrane according to claim 40,
wherein the stimulation molecule is selected from the group consisting of collagen type II and
fibronectin.

Claim 42. (currently amended) A ~~cell-free~~-cartilage membrane according to claim 41,
wherein the stimulation molecule is attached to a support.

Claims 43-51 (cancelled).

Claim 52. (currently amended) A kit for cartilage repair comprising a ~~cell-free~~-cartilage
membrane comprising at least one surface part carrying a composition comprising at least one
stimulation molecule which induces a signal transduction in chondroblasts/chondrocytes and
which is selected from the group consisting of collagen proteins, proteoglycans and non-
collageneous proteins.

Claims 53-57 (cancelled).